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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 4

Complete if Known

Application Number	10/070,013
Filing Date	July 29, 2002
First Named Inventor	Tajinder Manku #7
Group Art Unit	2681
Examiner Name	Unassigned
Attorney Docket Number	085907

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
B2	1.	6,324,388	B1	Souetinov	11-27-2001	
	2.	6,308,058	B1	Souetinov et al.	10-23-2001	
	3.	2001/0014596	A1	Takaki et al.	08-16-2001	
	4.	6,243,569	B1	Atkinson	06-05-2001	
	5.	6,194,947		Lee et al.	02-27-2001	
	6.	6,167,247		Kannel et al.	12-26-2000	
	7.	6,148,184		Manku et al.	11-14-2000	
	8.	6,125,272		Bautista	09-26-2000	
	9.	6,091,940		Sorrells et al.	07-18-2000	
	10.	6,073,000		Shinohara	06-06-2000	
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	33.	4,811,425		Feerst	03-07-1989	

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Sheet

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4

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Application Number

10/070,013

Filing Date

July 29, 2002

First Named Inventor

Tajinder Manku

Group Art Unit

2681

Examiner Name

Unassigned

Attorney Docket Number

085907

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
Bj	34.	4,736,390		Ward et al.	04-05-1988	
	35.	4,726,042		Vance	02-16-1988	
	36.	4,677,690		Reed	06-30-1987	
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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
Bj	55	CA	2,273,671		Sreenath et al.	03-05-2002		
	56	CA	2,300,045	A1	Mitel	09-03-2001		
	57	CA	2,331,228	A1	Schultz et al.	07-18-2001		
	58	CA	2,339,744	A1	Mitel	03-02-2001		
	59	CA	2,281,236	A1	Mitel	03-01-2001		
	60	CA	2,272,877		Madni et al.	11-27-1999		
Bj	61	CA	2,270,337		Redfern et al.	10-29-1999		

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Sheet 3 of 4

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Application Number	10/070,013
Filing Date	July 29, 2002
First Named Inventor	Tajinder Manku
Group Art Unit	2681
Examiner Name	Unassigned
Attorney Docket Number	085907

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
BZ	62	CA	2,316,969	A1	Kaufman et al.	07-15-1999		
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	70	EP	1067689	A2	Thorpe et al.	01-10-2001		
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	73	EP	0899868	A1	Mitel, Corp.	03-03-1999		
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	77	GB	2329085	A	GEC-Marconi	03-10-1999		
	78	PCT	WO 00/69085	A1	Morphics Tech.	11-16-2000		
	79	PCT	WO 00/05815	A1	Global Comm.	02-03-2000		
	80	PCT	WO 99/55015	A1	Ericsson, Inc.	10-28-1999		
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	82	PCT	WO 97/50202	A2	Cummings	12-31-1997		
PZ	83	PCT	WO 96/01006	A1	Honeywell, Inc.	01-11-1996		

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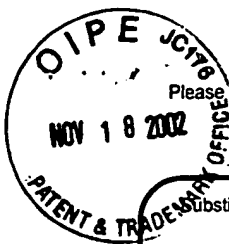
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4 of 4

Complete if Known

Application Number	10/070,013
Filing Date	July 29, 2002
First Named Inventor	Tajinder Manku
Group Art Unit	2681
Examiner Name	Unassigned
Attorney Docket Number	085907

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
PJ	84	ABIDI "Direct-Conversion Radio Transceivers for Digital Communications," IEEE J. of Solid-State Circuits," 30:1399-1410 (1995).	
	85	ANVARI et al. "PERFORMANCE OF A DIRECT CONVERSION RECEIVER WITH $\pi/4$ -DPSK MODULATED SIGNAL," IEEE publication CH2944-7/91/0000/0822, pp. 822-827 (1991).	
	86	CHO et al. "A Single Chip CMOS Direct-Conversion Transceiver For 900MHz Spread-Spectrum Digital Cordless Phones," IEEE 1999 International Solid-State Circuits Conference paper TP13.5 (1999).	
	87	ENZ "Design of Low-Power and Low-Voltage Analog and RF Integrated Circuits in Ultra Deep Submicron CMOS Technologies," available from the Electronics Laboratory of EPFL (Lausanne) website http://legwww.epfl.ch (2001).	
	88	GCT Semiconductor, Inc. "GCT's Direct Conversion Technology," product information available from http://www.gct21.com (2002).	
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	91	MCDONALD "A 2.5GHz BiCMOS Image-Reject Front-End," 1993 International Solid-State Circuits Conference, paper TP 9.4 (1993).	
	92	RAZAVI "Design Considerations for Direct-Conversion Receivers," IEEE Transactions on Circuits and Systems – II: Analog and Digital Signal Processing 44:428-435 (1997).	
	93	RUDELL et al. "A 1.9GHz Wide-Band IF Double Conversion CMOS Integrated Receiver for Cordless Telephone Applications," IEEE 1997 International Solid-State Circuits Conference, paper SA 18.3 (1997).	
	94	SANDULEANU et al. "Chopping: a technique for noise and offset reduction," <u>Power, Accuracy and Noise Aspects in CMOS Mixed-Signal Design</u> , chapter 5, sections 5.2 and 5.4, EDA Books Online http://www.dacafe.com (1999).	
	95	SANDULEANU et al. "LOW-POWER LOW-VOLTAGE CHOPPED TRANSCONDUCTANCE AMPLIFIER FOR NOISE AND OFFSET REDUCTION," conference paper, 23rd European Solid-State Circuits Conference Southampton, UK, 16 - 18 September 1997.	
	96	SEVENHANS et al. "An integrated Si bipolar RF transceiver for zero if 900 MHz GSM digital mobile radio frontend of a hand portable phone," Proceedings of the Custom IC Conference, San Diego 1991; IEEE publication 0-7803-0768-2, pp561-564 (1992).	
g	97	STETZLER et al. "A 2.7V to 4.5 V Single-Chip GSM Transceiver RF Integrated Circuit," 1995 International Solid-State Circuits Conference, paper TA 8.8 (1995).	

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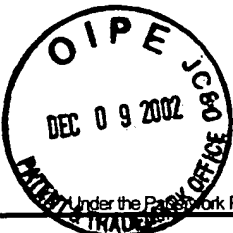
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Sheet 1 of 2

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Application Number	10/070,013
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First Named Inventor	Tajinder Manku
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BZ	✓ 1	US-6,014,408	01-11-2000	Naruse et al.	
/	x 2	US-5,838,717	11-17-1998	Ishii et al.	
/	x 3	US-5,390,346	02-14-1995	Marz	
BN	x 4	US-4,110,834	08-29-1978	Altwein	

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
BZ	✓ 5	EP	977351	A	02-02-2000			<input type="checkbox"/>
/	✓ 6	EP	902549	A	03-17-1999			<input type="checkbox"/>
/	x 7	EP	837565	A	04-22-1998			<input type="checkbox"/>
/	x 8	WO	96/01006	A	01-11-1996			<input type="checkbox"/>
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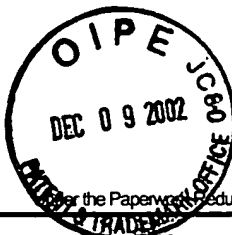
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		Art Unit	2681		
		Examiner Name	Unassigned		
Sheet	2	of	2	Attorney Docket Number	085907-000000US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>BJ</i>	10	AUE et al. "Multicarrier spread spectrum modulation with reduce dynamic range," IEEE Vehicular Technology Conference Atlanta, vol. 2, pp. 914-917 (1996).	

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